

AP/280

PTO/SB/21(08/00)

Approved for use through 19/30/2000. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<h1>TRANSMITTAL FORM</h1> <p>(to be used for all correspondence after initial filing)</p>		Application Number	09/517,705
		Filing Date	March 2, 2000
		First Named Inventor	Chunlin Liang
		Group Art Unit	2811
		Examiner Name	Loke, S.
Total Number of Pages in This Submission	7	Attorney Docket Number	42390P5771D

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <input checked="" type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Return Postcard TC 2800 MAIL ROOM MAR - 7 2002 RECEIVED </div>
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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Daniel J. Burns, Reg. No. P-50,222 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN
Signature	
Date	February 19, 2002

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PTO/SB/17 (10-01)
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

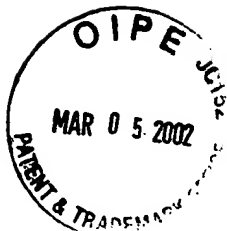
FEE TRANSMITTAL for FY 2002 <small>Patent fees are subject to annual revision.</small>		Complete if Known													
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		<table border="1" style="width:100%; border-collapse: collapse;"> <tr><td>Application Number</td><td>09/517,705</td></tr> <tr><td>Filing Date</td><td>03/02/00</td></tr> <tr><td>First Named Inventor</td><td>Chunlin Liang, et al.</td></tr> <tr><td>Examiner Name</td><td>Loke, S.</td></tr> <tr><td>Group Art Unit</td><td>2811</td></tr> <tr><td>Attorney Docket Number</td><td>42390P5771D</td></tr> </table>		Application Number	09/517,705	Filing Date	03/02/00	First Named Inventor	Chunlin Liang, et al.	Examiner Name	Loke, S.	Group Art Unit	2811	Attorney Docket Number	42390P5771D
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TOTAL AMOUNT OF PAYMENT (\$) 0.00															

METHOD OF PAYMENT (check all that apply) <input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input type="checkbox"/> Deposit Account Deposit Account Number: 02-2666 Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman The Commissioner is authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application. <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee, to the above-identified deposit account	FEE CALCULATION (continued) 3. 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SUBMITTED BY		Complete (if applicable)	
Typed or Printed Name	Daniel J. Burns, Reg. No. P-50,222	Registration No. (Attorney/Agent)	Telephone (310) 207-3800
Signature		Date	02/19/02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Our Ref. No.: 042390P5771D

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application for:

Chunlin Liang and Gang Bai

Serial No.: 09/517,705

Filed: March 2, 2000

For: **COMPLEMENTARY METAL GATE
ELECTRODE TECHNOLOGY**

Examiner: Loke, S.

Art Unit: 2811

7
Response
FJONES
3-14-02

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RESPONSE TO FINAL OFFICE ACTION

Assistant Commissioner for Patents

Box: AF

Washington, D.C. 20231

Dear Sir:

In response to the Final Office Action dated January 18, 2002, Applicants respectfully request consideration of the Remarks which follow.

REMARKS

In response to the above-identified Final Office Action, Applicants seek reconsideration thereof. In this Response, Claims 1-2 and 16-17 are pending.

I. Claims Rejected Under 35 U.S.C. §112, second paragraph

The Examiner rejects Claim 17 under 35 U.S.C. §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicants regard as the invention. Regarding Claim 17, the Examiner contends that it is unclear which materials have a work function corresponding to P-type silicon and which have a work function corresponding to N-type silicon. In response, Applicants note that the work function of the materials in Claim 17 are well-known to those in the art. As one example, see the table entitled Electron Work Functions of the Elements beginning on page E-89 in the *CRC Handbook of*

not OK

Chemistry and Physics (67th Ed.) Accordingly, Applicants respectfully request withdrawal of the rejection of Claim 17.

II. Claims Rejected Under 35 U.S.C. § 102(b)

The Examiner rejects Claims 1-2 and 16 under 35 U.S.C. § 102(b) as being anticipated by Dash et al, U.S. Patent No. 4,399,605 ("Dash"). Applicants respectfully traverse this rejection.

In order to anticipate a claim, the relied upon reference must disclose every limitation of the claim. Among other limitations, Claim 1 recites that the first metal gate electrode and the second metal gate electrode are separately disposed in respective ones of the first area and the second area of the semiconductor substrate.

In making the rejection, the Examiner relies on Dash to show a circuit device comprising two metal gate electrodes 56 and 50. (See Dash, Fig. 9.) The Examiner argues that the first metal gate electrode (a portion of layer 56 formed above channel region 52) and the second metal gate electrode 50 are separately disposed in respective ones of a first area (P-type region 52) and a second area (N-type region 54) of the semiconductor substrate. However, Applicants note that metal gate electrode 56 is formed above both P-type region 52 and N-type region 54 of the semiconductor substrate since the conductive line 56 acts as the gate electrode for the N channel transistor and as a contact with the platinum silicide gate electrode 50 of the P channel transistor. (See Dash, Fig. 9, col. 4, lines 17-21.) Thus, Dash fails to teach or suggest that the first metal gate electrode and the second metal gate electrode are separately disposed in respect of ones of a first area and a second area of the semiconductor substrate.

Accordingly, Applicants respectfully request withdrawal of the rejection of independent Claim 1. Claims 2 and 6 depend from Claim 1. As such, the dependent claims are not anticipated for at least the same reasons as Claim 1.

III. Claims Rejected under 35 U.S.C. §103(a)

The Examiner rejects Claim 17 under 35 U.S.C. §103(a) as being obvious over Dash. Applicants respectfully traverse this rejection.

The Examiner's obligation in making a *prima facie* case of obviousness requires the Examiner to show that the prior art, in combination, teaches or suggests all elements of the claimed invention. Applicants respectfully submit that the Examiner has failed to set forth a *prima facie* case of obviousness.

Claim 17 depends from independent Claim 1. As argued above, Dash fails to teach or suggest that the first metal gate electrode and the second metal gate electrode are separately disposed in respective ones of the first area and the second area of the semiconductor substrate.

Thus, Claim 17 is not anticipated for at least the same reasons as independent Claim 1. Accordingly, Applicants respectfully request withdrawal of the rejection of Claim 17.

CONCLUSION

If necessary, the Commissioner is hereby authorized in this, concurrent and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2666 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17, particularly, extension of time fees.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: February 19, 2002

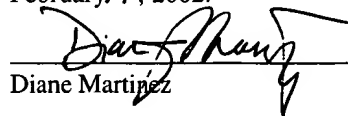


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CERTIFICATE OF MAILING:

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Diane Martinez

February 19, 2002

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